Exhibit 4

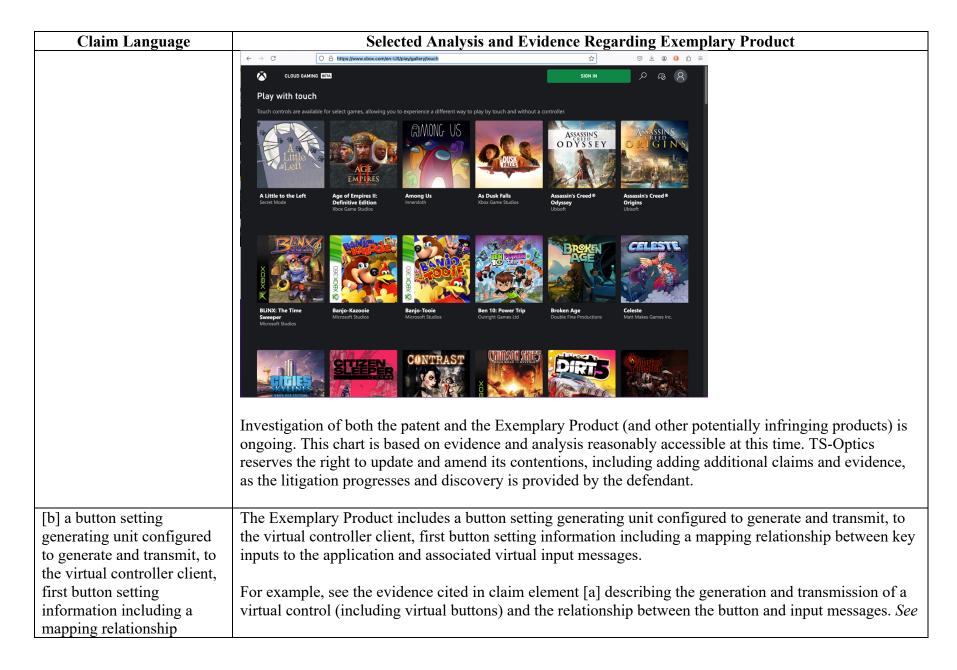
Exhibit 4 U.S. Patent No. 9,612,709

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Microsoft XBOX Cloud Gaming ("Exemplary Product")

Claim Language	Selected Analysis and Evidence Regarding Exemplary Product
Claim 4	
4. A computer comprising.	The Exemplary Product includes a computer.
	For example, the Exemplary Product is implemented using one or more servers. <i>E.g.</i> , https://learn.microsoft.com/pdf?url=https%3A%2F%2Flearn.microsoft.com%2Fen-us%2Fgaming%2Fgdk%2Ftoc.json at 481("With Xbox Game Streaming, your game runs on an Xbox server in an Azure datacenter."). Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. TS-Optics
	reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.
[a] a virtual controller server	The Exemplary Product includes a virtual controller server configured to remotely communicate with a
configured to remotely	virtual controller client running on a remote mobile terminal including a touch screen display device for
communicate with a virtual	remote key input on an application running on the computer.
controller client running on	
a remote mobile terminal	For example, "[s]elect games can be played with Xbox touch controls." https://www.xbox.com/en-
including a touch screen	US/cloud-gaming; see also
display device for remote	https://learn.microsoft.com/pdf?url=https%3A%2F%2Flearn.microsoft.com%2Fen-
key input on an application	us%2Fgaming%2Fgdk%2Ftoc.json at 527("When players stream your game to their mobile devices, one
running on the computer, the virtual controller server	of the best ways that you can increase their enjoyment of the game is to enable them to interact with your
comprising:	game with touch controls. Xbox game streaming supports the ability to overlay touch controls on your game using the Touch Adaptation Kit, and that can be a great choice for many screens in your game where having a virtual gamepad is a natural way to play the game. However, for portions of your game

Claim Language	Selected Analysis and Evidence Regarding Exemplary Product
	like menus, maps, inventory screens and others, it may be more natural to interact with the game directly with touch inputs.").
	PLAY 100+ GREAT GAMES WITH CUSTOM XBOX TOUCH CONTROLS A virtual controller client associated with a key communicates with the closest datacenter for remote key input on an APP
	https://learn.microsoft.com/pdf?url=https%3A%2F%2Flearn.microsoft.com%2Fen-us%2Fgaming%2Fgdk%2Ftoc.json at 531 ("Each layout is a JSON representation of a specific set of touch controls that can be displayed to the player."), 4320 ("Name of the touch control layout to displayThe id of the touch control layoutLayout ids are title-specific").
	https://github.com/microsoft/xbox-game-streaming-tools/blob/main/touch-adaptation-kit/samples/sample-layouts/layouts/neutral/driving.json (showing sample JSON objects with button mappings).
	https://youtu.be/LfxAJt-Q9nE?si=ZKFq71_DSboc-Adb&t=512.
	A list of currently available games that are "Play with touch" compatible can be found here: https://www.xbox.com/en-US/play/gallery/touch

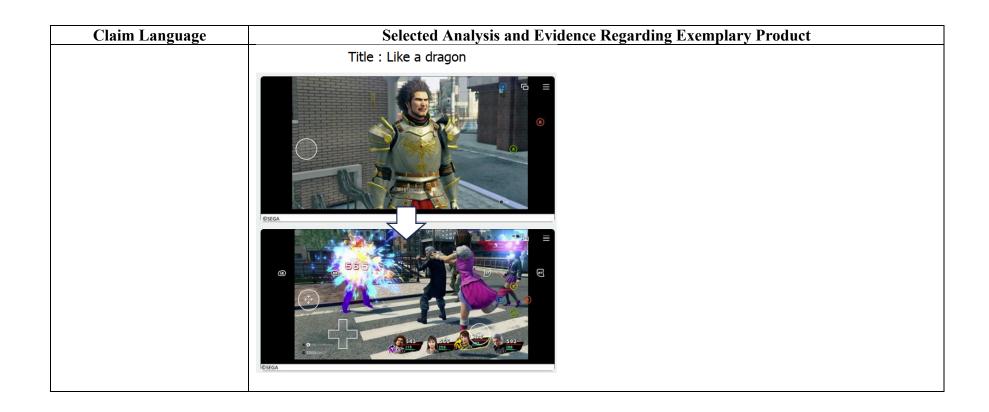


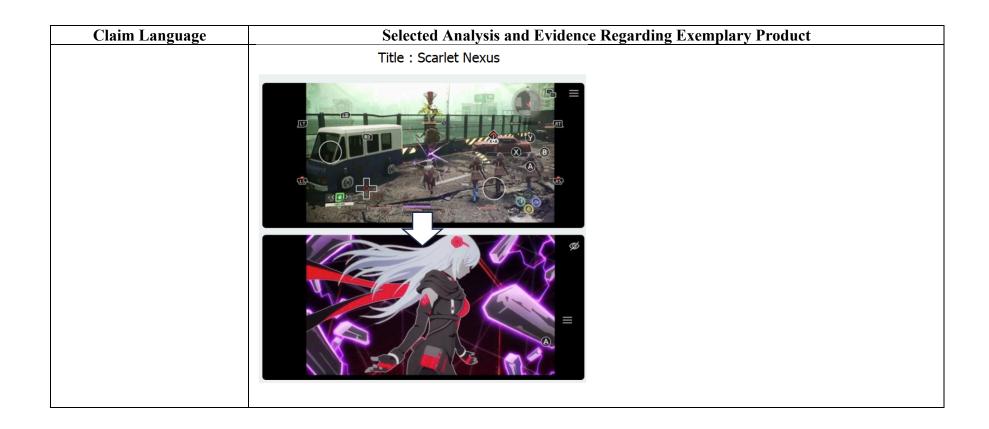
Claim Language	Selected Analysis and Evidence Regarding Exemplary Product
between key inputs to the	also, e.g., https://github.com/microsoft/xbox-game-streaming-tools/blob/main/touch-adaptation-
application and associated	kit/samples/sample-layouts/layouts/neutral/driving.json (in, for example, "first-person-shooter.json":
virtual input messages;	{
	"type": "button",
	"action": "gamepadA",
	"styles": {
	"default": {
	"faceImage": {
	"type": "icon",
	"value": "jump"
	}
	}
	}
).
	Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. TS-Optics reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.
[c] a server message interfacing unit configured to transmit a setting	The Exemplary Product includes a server message interfacing unit configured to transmit a setting message including the first button setting information to the virtual controller client, and to receive a virtual input message from the virtual controller client, the virtual input message being generated based
message including the first button setting information to	on a touch on the touch screen display device of the mobile terminal.
the virtual controller client,	For example, see evidence cited in claim elements [a] and [b]. In addition, "[e]very call to
and to receive a virtual input	XGameStreamingShowTouchControlLayout results in a message being sent over the network, so it
message from the virtual	should not be called every frame."
controller client, the virtual	https://learn.microsoft.com/pdf?url=https%3A%2F%2Flearn.microsoft.com%2Fen-
input message being	us%2Fgaming%2Fgdk%2Ftoc.json at 4321.

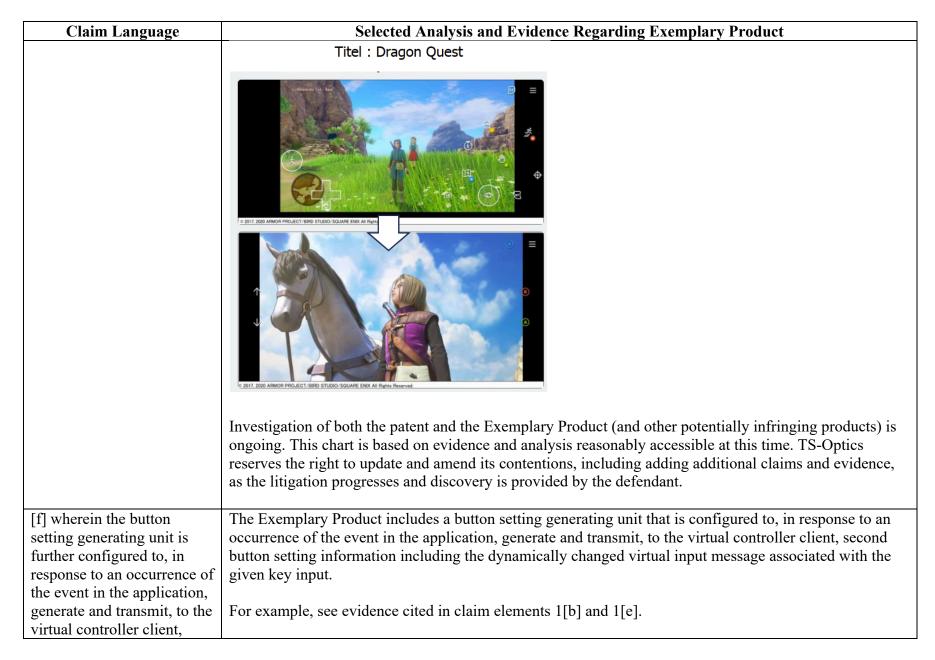
Claim Language	Selected Analysis and Evidence Regarding Exemplary Product
generated based on a touch on the touch screen display device of the mobile terminal; and	Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. TS-Optics reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.
[d] a key mapping unit configured to identify a key input value mapped to the received virtual input	The Exemplary Product includes a key mapping unit configured to identify a key input value mapped to the received virtual input message based on the first button setting information. For example, <i>see</i> evidence cited in claim elements [a], [b], and [c]. <i>See also</i> , e.g.,
message based on the first button setting information,	https://github.com/microsoft/xbox-game-streaming-tools/blob/main/touch-adaptation-kit/samples/sample-layouts/layouts/neutral/driving.json (in, for example, "first-person-shooter.json":
	<pre>"type": "button", "action": "gamepadA", "styles": { "default": { "faceImage": {</pre>
	Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. TS-Optics reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.

Claim Language Selected Analysis and Evidence Regarding Exemplary Product [e] wherein the mapping The Exemplary Product includes a mapping relationship that dynamically redefines the virtual input message associated with a given key input based on an event in the application. relationship dynamically redefines the virtual input message associated with a For example, documentation for aspects of the Exemplary Product advises to "only call this API when given key input based on an your game needs to transition between different touch control layouts" and provides examples of ways to event in the application, dynamically redefine the virtual control layout and associated virtual input messages. **Examples** C++ void OnGameStateChanged(GameState newState) // Toggle to the set of touch overlay controls which best match the new state of the game switch (newState) case GameState::FirstPersonAction: XGameStreamingShowTouchControlLayout("FirstPersonAction"); break; case GameState::Driving: XGameStreamingShowTouchControlLayout("Driving"); break: case GameState::CutScene: // Don't show any touch overlay controls while the cut scene is rendering XGameStreamingHideTouchControls(); break; https://learn.microsoft.com/pdf?url=https%3A%2F%2Flearn.microsoft.com%2Fenus%2Fgaming%2Fgdk%2Ftoc.json at 4321; see also id. at 634-640 (showing different sample control layouts). The dynamic redefinition can be seen in games using the Exemplary Product as well, as shown by the

screenshots below.







Claim Language	Selected Analysis and Evidence Regarding Exemplary Product
second button setting	Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is
information including the	ongoing. This chart is based on evidence and analysis reasonably accessible at this time. TS-Optics
dynamically changed virtual	reserves the right to update and amend its contentions, including adding additional claims and evidence,
input message associated	as the litigation progresses and discovery is provided by the defendant.
with the given key input,	
and	
[g] wherein the key	The Exemplary Product includes a key mapping unit configured to identify the key input value mapped to
mapping unit is further	the dynamically changed virtual input message based on the second button setting information.
configured to identify the	
key input value mapped to	For example, see evidence cited in claim element 1[d].
the dynamically changed	
virtual input message based	Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is
on the second button setting	ongoing. This chart is based on evidence and analysis reasonably accessible at this time. TS-Optics
information.	reserves the right to update and amend its contentions, including adding additional claims and evidence,
	as the litigation progresses and discovery is provided by the defendant.